

1 ABSTRACT OF THE DISCLOSURE

2 The present invention provides backscatter interrogators,
3 communication systems and backscatter communication methods. According
4 to one aspect of the present invention, a backscatter interrogator includes
5 a data path configured to communicate a data signal; a signal generator
6 configured to generate a carrier signal; and a modulator coupled with the
7 data path and the signal generator, the modulator being configured to
8 spread the data signal to define a spread data signal and amplitude
9 modulate the carrier signal using the spread data signal, the modulator
10 being further configured to phase modulate the carrier signal.

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